BBA

Protein Structure & Molecular Enzymology

Vol. 1204, 1994

Cumulative Contents

Information for Contributors vii

Regular Papers

Purification and characterization of an aminopeptidase from tuna (*Thunnus albacares*) pyloric caeca
M. Hajjou and Y. Le Gal (France) 1

^{1}H- and ^{15}N-NMR study of the binding of thiocyanate to chemically modified horseradish peroxidase and involvement of salt bridge
S. Modi, D.V. Behere and S. Mitra (India) 14

A ^{13}C solid-state NMR study of the structure and auto-oxidation process of natural and synthetic melanins
M. Hervé, J. Hirschinger, P. Granger, P. Gilard, A. Deflandre and N. Goetz (France) 19

Mini-myoglobin: native-like folding of the NO-derivative
G. De Sanctis, G. Falcioni, F. Polizio, A. Desideri, B. Giardina, F. Ascoli and M. Brunori (Italy) 28

Tyrosinase: kinetic analysis of the transient phase and the steady state
J.R. Ros, J.N. Rodríguez-López and F. García-Cánovas (Spain) 33

Elastase inhibition by the C-terminal domains of α-crystallin and small heat-shock protein
C.E.M. Voorter, W. de Haard-Hoekman, K.B. Merck, H. Bloemendal and W.W. de Jong (The Netherlands) 43

Identification of an IgE-binding determinant of the major allergen *Myr p I* from the venom of the Australian jumper ant *Myrmecia pilosula*
G.R. Donovan, M.D. Street, B.A. Baldo, D. Alewood, P. Alewood and S. Sutherland (Australia) 48

Dopachrome tautomerase decreases the binding of indolic melanogenesis intermediates to proteins
C. Salinas, J.C. García-Borrón, F. Solano and J.A. Lozano (Spain) 53

The complete primary structure of the long form of mouse α1(IX) collagen chain and its expression during limb development
N. Abe, H. Yoshioka, H. Inoue and Y. Ninomiya (Japan) 61

Primary structure and specificity of the major serine proteinase inhibitor of amaranth (*Amaranthus caudatus* L.) seeds
J. Hejgaard, J. Dam, L.C. Petersen and S.E. Bjørn (Denmark) 68

The primary structure of sheep liver cytosolic serine hydroxymethyltransferase and an analysis of the evolutionary relationships among serine hydroxymethyltransferases
R. Usha, H.S. Savithri and N.A. Rao (India) 75

Putative functions of phenylalanine-350 of *Pseudomonas putida* cytochrome *P*-450_{cam}
T. Yasukochi, O. Okada, T. Hara, Y. Sagara, K. Sekimizu and T. Horiuchi (Japan) 84

S′-subsite mapping of polyethylene glycol-modified α-chymotrypsin and α-chymotrypsin: a comparative study
V. Čeřovský, D. Ullmann and H.-D. Jakubke (Czech Republic, Germany) 91

Characteristics of 92 kDa type IV collagenase/gelatinase produced by granulocytic leukemia cells: structure, expression of cDNA in *E. coli* and enzymic properties
T. Pourmotabbed, T.L. Solomon, K.A. Hasty and C.L. Mainardi (USA) 97

Characteristic properties of retinal oxidase (retinoic acid synthase) from rabbit hepatocytes
M. Tsujita, S. Tomita, S. Miura and Y. Ichikawa (Japan) 108

Competing peroxidase and oxidase reactions in scopoletin-dependent H_2O_2-initiated oxidation of NADH by horseradish peroxidase
P. Saikumar, A. Swaroop, C.K.R. Kurup and T. Ramasarma (India) 117

Infrared spectroscopic studies of calcium binding to inhibited β-trypsins
R.A. Buono, S.J. Prestrelski, M.N. Liebman and D.M. Byler (USA) 124

Erratum 129

Review

Red cell membrane protein band 4.2: phenotypic, genetic and electron microscopic aspects
Y. Yawata (Japan) 131

Regular Papers

Cytosolic proteins of 21–23 kDa are methylated by kidney cortex membrane-associated C-terminal carboxyl methyltransferases
D. Gingras and R. Béliveau (Canada) 149

Simultaneous racemization and isomerization at specific aspartic acid residues in αB-crystallin from the aged human lens
N. Fujii, Y. Ishibashi, K. Satoh, M. Fujino and K. Harada (Japan) 157

Chemical modification of xylanase from alkalothermophilic *Bacillus* species: evidence for essential carboxyl group
J. Chauthaiwale and M. Rao (India) 164

The synthesis of a pyridyl analog of adenosylcobalamin and its coenzymic function in the diol dehydratase reaction
T. Toraya, S. Miyoshi, M. Mori and K. Wada (Japan) 169

α,β-Unsaturated carbonyl compounds: inhibition of rat liver glutathione *S*-transferase isozymes and chemical reaction with reduced glutathione
C.-i. Chien, K.S. Kirollos, R.J. Linderman and W.C. Dauterman (USA) 175

Assessment of homology with the helical mimicry algorithm
C.M. Bositis, N. Craft, R.A. Lew, E.J. Fowlie, J. Queenan and R.E. Humphreys (USA) 181

Amino-acid sequence of a trypsin/chymotrypsin inhibitor from giant taro (*Alocasia macrorrhiza*)
M.E. Argall, J.H. Bradbury and D.C. Shaw (Australia) 189

α-Crystallin: molecular chaperone and protein surfactant
J.A. Carver, J.A. Aquilina, P.G. Cooper, G.A. Williams and R.J.W. Truscott (Australia) 195

Resonance Raman spectroscopic studies of ligated mutant myoglobins
D. Biram and R.E. Hester (UK) 207

Transhydroxylase of *Pelobacter acidigallici*: a molybdoenzyme catalyzing the conversion of pyrogallol to phloroglucinol
W. Reichenbecher, A. Brune and B. Schink (FRG, USA) 217

Fluorescence dynamics of staphylococcal nuclease in aqueous solution and reversed micelles
A.J.W.G. Visser, J. van Engelen, N.V. Visser, A. van Hoek, R. Hilhorst and R.B. Freedman (The Netherlands, UK) 225

Functional properties of recombinant staphylokinase variants obtained by site-specific mutagenesis of methionine-26
B. Schlott, M. Hartmann, K.-H. Gührs, E. Birch-Hirschfeld, A. Gase, S. Vettermann, D. Collen and H.R. Lijnen (Germany, Belgium) 235

Purification of selenoprotein P from human plasma
B. Åkesson, T. Bellew and R.F. Burk (USA) 243

The regulation of alanine and aspartate aminotransferase by different aminothiols and by vitamin B-6 derivatives
R. Pagani, R. Leoncini, L. Terzuoli, M. Pizzichini and E. Marinello (Italy) 250

Primary structure of aspergillopepsin I deduced from nucleotide sequence of the gene and aspartic acid-76 is an essential active site of the enzyme for trypsinogen activation
T. Shintani and E. Ichishima (Japan) 257

Human α-galactosidase gene expression: significance of two peptide regions encoded by exons 1–2 and 6
S. Ishii, R. Kase, H. Sakuraba, S. Fujita, M. Sugimoto, K. Tomita, T. Semba and Y. Suzuki (Japan) 265

Novel structure of a Chinese hamster polyubiquitin gene
M. Nenoi, K. Mita, S. Ichimura and I.L. Cartwright (Japan, USA) 271

A novel glutathione *S*-transferase isozyme similar to GST 8-8 of rat and mGSTA4-4 (GST 5.7) of mouse is selectively expressed in human tissues
S.S. Singhal, P. Zimniak, R. Sharma, S.K. Srivastava, S. Awasthi and Y.C. Awasthi (USA) 279

Decorin and a large dermatan sulfate proteoglycan in bovine striated muscle
K.H. Eggen, A. Malmstrøm and S.O. Kolset (Norway, Sweden) 287

Functional and structural membrane topology of rat liver microsomal glutathione transferase
C. Andersson, R. Weinander, G. Lundqvist, J.W. DePierre and R. Morgenstern (Sweden) 298

Cumulative Contents, Vol. 1204 305

Author Index 307